

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (canceled).

2. (previously presented): A method of transferring information signals between two separate send/receive interfaces which are part of the same communication device, the method including processing of said signals, wherein said two interfaces use, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular similar formats and apply opposite processing sequences for a particular incoming signal, and wherein one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, said method also comprising the steps of:

- distinguishing between user data and signaling data,
- applying to said signaling data all processing operations needed to enable it to be interpreted by each of said interfaces, and
- applying to said user data only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,

wherein, when the following two processing sequences i) and ii) are applied to said signaling data:

i) demodulation, burst demultiplexing, burst decomposition, decryption, and

ii) source coding, channel coding, coded data interleaving, encryption,
then only the following restricted processing sequences iii) and iv) are applied to said
user data by the interfaces concerned:

- iii) demodulation, burst demultiplexing, burst decomposition, decryption, and
- iv) encryption.

3. (original): The method claimed in claim 2 wherein said restricted processing
sequences are applied to said user data as a function of an activated or de-activated state of a
communication function requiring specific additional processing of reproduced or reconstituted
user data.

4. (previously presented): The method claimed in claim 2, wherein said two interfaces
are radio interfaces, one of them is a radio interface for a cordless telephone local area network,
the other is a radio interface for a cellular telecommunication network for mobile stations, and
said interfaces are part of a fixed base station of said cordless telephone local area network.

5. (previously presented): The method claimed in claim 2, wherein said two interfaces
are radio interfaces which are part of the communication device which also comprises a
controller of sender-receiver centers or base stations of a radiocommunication network including
fixed base stations distributed over a given territory and a plurality of mobile stations such as
cellular telephones.

6. - 14. (canceled).

15. (currently amended): A communication device integrating at least two separate
send/receive interfaces using, at least for information data useful to users, referred to as user

data, similar transmission structures and protocols, and in particular formats, and applying opposite processing sequences for a particular incoming signal,

wherein one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, and information signals are transferred between said two interfaces, wherein applied to said signaling data are all processing operations needed to enable it to be interpreted by each of said interfaces, wherein applied to said user data are only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,

wherein, when the following two processing sequences i) and ii) are applied to said signaling data:

i) demodulation, burst demultiplexing, burst decomposition, decryption, and

ii) source coding, channel coding, coded data interleaving, encryption,

then only the following restricted processing sequences iii) and iv) are applied to said user data by the interfaces concerned:

iii) demodulation, burst demultiplexing, burst decomposition, decryption, and

iv) encryption,

and

wherein said two interfaces are radio interfaces, one of them is a radio interface for a cordless telephone local area network, the other is a radio interface for a cellular telecommunication network for mobile stations, and said interfaces are part of a fixed base station of said cordless telephone local area network.

16. (currently amended): A communication device integrating at least two separate send/receive interfaces using, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular formats, and applying opposite processing sequences for a particular incoming signal,

wherein one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, and information signals are transferred between said two interfaces, wherein applied to said signaling data are all processing operations needed to enable it to be interpreted by each of said interfaces, wherein applied to said user data are only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,

wherein, when the following two processing sequences i) and ii) are applied to said signaling data:

i) demodulation, burst demultiplexing, burst decomposition, decryption, and

ii) source coding, channel coding, coded data interleaving, encryption,

then only the following restricted processing sequences iii) and iv) are applied to said user data by the interfaces concerned:

iii) demodulation, burst demultiplexing, burst decomposition, decryption, and

iv) encryption,

wherein said two interfaces are radio interfaces providing transmission between stations of the same network or of two different networks, and

wherein said device comprises a controller of sender-receiver centers or base stations controlling at least two base stations of a cellular radiocommunication network including fixed base stations distributed over a given territory and a plurality of mobile stations.

17. (currently amended): A communication device integrating at least two separate send/receive interfaces using, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular formats, and applying opposite processing sequences for a particular incoming signal, wherein one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, and information signals are transferred between said two interfaces, wherein applied to said signaling data are all processing operations needed to enable it to be interpreted by each of said interfaces, wherein applied to said user data are only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,

wherein said two interfaces are radio interfaces providing transmission between stations of the same network or of two different networks,

wherein, when the following two processing sequences i) and ii) are applied to said signaling data:

i) demodulation, burst demultiplexing, burst decomposition, decryption, and

ii) source coding, channel coding, coded data interleaving, encryption,

then only the following restricted processing sequences iii) and iv) are applied to said user data by the interfaces concerned:

iii) demodulation, burst demultiplexing, burst decomposition, decryption, and
iv) encryption, and

wherein said device comprises a fixed base station of a cordless telephone local area network, wherein one of said interfaces provides the link with said mobile station or stations of said local area network and the other of said interfaces provides the connection to one or more fixed or mobile stations of a cellular telecommunication network.

18. (previously presented): The method claimed in claim 2, wherein
processing sequence i) includes data de-interleaving, data channel decoding, source decoding,
processing sequence ii) includes burst composition, burst multiplexing, modulation, and
processing sequence iv) includes burst composition, burst multiplexing, modulation.